



Powered by



Operating Manual
iTAG100-7/iTAG100-7-CB
TAG-2000-X7/TAG-2000-CX7
(English)

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1 Introduction

The iTAG100-7/iTAG100-X7-CB/TAG-2000-X7/TAG-2000-CX7 are MET Canada approved, intrinsically safe versions of the AeroScout T2 Tag. This is the most advanced Wi-Fi based Active RFID tag on the market, from the company that originated the Wi-Fi tag industry. The device is a small, long-life Wi-Fi based active RFID device that can be placed on any asset, allowing the AeroScout system to locate assets that are not Wi-Fi enabled.

2 Safety Information and Notes

2.1 Storage of this Manual

Keep this user manual safe and in the vicinity of the product. All persons required work on or with the product should be advised on where the manual is stored.

2.1 Special Conditions for Safe Use

2.1.1 Class I Zone 0

None Specified

2.2 List of Notes

The notes supplied in this chapter provide information on the following.

- Danger! / Warning!
 - Possible hazard to life or health.
- Caution
 - Possible damage to property.
- Important
 - Possible damage to the tag.
- Information
 - Notes on the optimum use of the device

Warning! This product can be delivered in a number of different variants; each variant has restrictions on where it can be used. Please read the information in the type codes section fully and ensure that your iTAG100 / TAG-2000 is suitable for the hazardous area in which it is to be used.

Warning! All iTAG100 / TAG-2000 devices should only be cleaned with a damp cloth.

Warning! All MET Class I Zone 0 approved variants should only be fitted with the iTAG100-B1-MET / TAC-237 battery. This is a special battery which has an encapsulated end, and should only be installed by manufacturer-approved competent persons.

Warning! Any iTAG100 / TAG-2000 batteries should only be replaced in the safe area, by a competent person who is approved by the manufacturer.

Warning! The iTAG100 / TAG-2000 contains a source of RF power, which is software limited to <100mW; this is compliant with the requirements of IEC 60079-0:2011 Table 4. The user must not attempt to modify the software to exceed this power level.

Warning! The iTAG100/TAG-2000 variants have different permissible ambient temperature ranges for different temperature classes as follows:

ATEX/IECEx Temperature Class	CEC Section 18 Temperature Class	Permissible Ambient Temperature Range
T4	T4	-30°C ≤ Ta ≤ +75°C
T5	T5	-30°C ≤ Ta ≤ +45°C
T6	T6	-30°C ≤ Ta ≤ +30°C

Warning! Do not open the iTAG100/TAG-2000. There are no user-serviceable parts inside.

Warning! Any repairs or replacement of parts MUST be performed by the manufacturer or its nominated sub-contractor or agent.

2.3 Class I Zone 0 Approval Information

The iTAG100-7, iTAG100-7-CB, TAG-2000-X7 and TAG-2000-CX7 carry the following approval:

MET Canada

Class I, Zone 0, Ex ia IIB T6..T4 Ga

The products are approved to the following standards:

CSA C22.2 No. 60950-1-07 (R2012): Safety of Information Technology Equipment.
CSA-C22.2 No. 60079-0:2011, Explosive atmospheres - Part 0: Equipment - General requirements.
CSA-C22.2 No. 60079-11:2014, Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i".

3 Installation and Setting-to-Work

3.1 Assembly and Disassembly

The iTAG100/TAG-2000 is provided ready assembled and should not be dismantled by the user.

3.2 Installation

The iTAG100/TAG-2000 should be mounted on the asset to be tracked, or worn by the person who is to be tracked.

Warning! Attention should be paid to the Temperature Class (T Class) of the area which the asset or person could be entering. Restrictions on the ambient temperature apply to the certification of the iTAG100/TAG-2000. Please refer to this manual and marking on the tag for the maximum ambient temperature permitted for each T Class.

3.3 Adjustment

No user adjustment of the iTAG100/TAG-2000 is possible.

4 Intended Purpose Usage

Important Before setting the units to work, read the technical documentation carefully.

Important The latest version of the technical documentation or the corresponding technical supplements is valid in each case.

Important For the installation, maintenance and cleaning of the units, it is absolutely necessary to observe the applicable regulations and provisions concerned with explosion protection (IEC 60079-0, IEC 60079-11, IEC 60079-14, CEC 18).

The iTAG100/TAG-2000 is built using modern components and is extremely reliable in operation; however it must only be used for its intended purpose. Please note that the intended purpose also includes compliance with the instructions issued by the manufacturer for installation, setting up and service.

Any other use is regarded as conflicting with the intended purpose. The manufacturer is not liable for any subsequent damage resulting from such inadmissible use. The user bears the sole risk in such cases.

4.1 Transport

All iTAG100/TAG-2000 devices must be so transported and stored that they are not subjected to any excessive mechanical stresses.

4.2 Authorized Persons

Only persons trained for the purpose are authorized to handle the iTAG100/TAG-2000; they must be familiar with the unit and must be aware of the regulation and provisions required for explosion protection as well as the relevant accident prevention regulations.

4.3 Cleaning and Maintenance

The iTAG100/TAG-2000 and all of its components require no maintenance and are self-monitoring. All work on the iTAG100/TAG-2000 by personnel who are not expressly qualified for such activities will cause the safety approval and the guarantee to become void.

4.4 Cleaning and Maintenance Intervals

The cleaning interval depends on the environment where the system is installed.

4.5 Aggressive substances and environments

The iTAG100/TAG-2000 is not designed to come into contact with aggressive substances or environments, please be aware that additional protection may be required.

4.6 Exposure to external stresses

The iTAG100/TAG-2000 is not designed to be subjected to excessive stresses e.g. vibration, heat, impact. Additional protection is required to protect against these external stresses.

The iTAG100/TAG-2000 will require additional protection if it is installed in a location where it may be subjected to damage.

5 Type Codes

Type Code	Description
iTAG100-7	Extronics-Branded Tag MET Canada Certified, Class I Zone 0 IIB T4,T5,T6, Listing E113811
iTAG100-7-CB	Extronics-Branded Tag With Call Button MET Canada Certified, Class I Zone 0 IIB T4,T5,T6, Listing E113811
TAG-2000-X7	AeroScout-Branded Tag MET Canada Certified, Class I Zone 0 IIB T4,T5,T6, Listing E113811
TAG-2000-CX7	AeroScout-Branded Tag With Call Button MET Canada Certified, Class I Zone 0 IIB T4,T5,T6, Listing E113811

6 Manufacturer

The iTAG100/TAG-2000 is manufactured by:

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UK**

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7 Label Drawings

 EXTRONICS Powered by AeroScout iTAG100-7 Date: 01/01/2014 Serial# 123456 c Listing No. E113811 COMPLIES WITH / CONFORME AVEC: CSA 22.2 No. 60950-1, No. 60079-0, No. 60079-11 Ex ia IIB T6...T4 Ga Class I Zone 0 / Classe I Zone 0 Group IIB / Groupe IIB T6 (-30°C ≤ Ta ≤ +30°C) T5 (-30°C ≤ Ta ≤ +45°C) T4 (-30°C ≤ Ta ≤ +75°C) Manufacturer/Fabricant: Extronics,CW10 0HU, UK   R201NY04215068 R201GZ04215069	 EXTRONICS Powered by AeroScout iTAG100-7-CB Date: 01/01/2014 Serial# 123456 c Listing No. E113811 COMPLIES WITH / CONFORME AVEC: CSA 22.2 No. 60950-1, No. 60079-0, No. 60079-11 Ex ia IIB T6...T4 Ga Class I Zone 0 / Classe I Zone 0 Group IIB / Groupe IIB T6 (-30°C ≤ Ta ≤ +30°C) T5 (-30°C ≤ Ta ≤ +45°C) T4 (-30°C ≤ Ta ≤ +75°C) Manufacturer/Fabricant: Extronics,CW10 0HU, UK   R201NY04215068 R201GZ04215069
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8 Manual Revision

Revision	Description	Date	By
1.0	Initial Release	03/07/2014	BTS